Use of thread bar simplifies and accelerates the process of rock-bolting—an advanced method for affixing mine tunnel roofs.

Rock bolt works immediately after installation, improving mine tunnel stability as rock stratification is prevented and the size of inelastic deformation areas is reduced.
PRODUCT DESCRIPTION

- Standard: TU U 27.3-23365425-611-2011
  or acc. to technical agreement with consumer
- Yield strength: 500 MPa, 600 MPa
- Bar length: 6-12 m
- Producer: Yenakiieve Iron & Steel Works’ Makiivka Branch
- Delivery condition: thermomechanically strengthened after rolling

Bar spacing and threads are controlled by full-length screwing on the controlling nut.

THREAD BAR PARAMETERS

<table>
<thead>
<tr>
<th></th>
<th>A400SH</th>
<th>A500SH</th>
<th>A600SH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter, mm*</td>
<td>20, 22</td>
<td>20, 22</td>
<td>20, 22</td>
</tr>
<tr>
<td>Min. yield strength, H/mm²</td>
<td>400</td>
<td>500</td>
<td>600</td>
</tr>
<tr>
<td>Min. elongation, %</td>
<td>16</td>
<td>20</td>
<td>18</td>
</tr>
</tbody>
</table>

* 18 mm, 25 mm, 28 mm, 32 mm to be mastered

THREAD BAR CHEMICAL COMPOSITION

<table>
<thead>
<tr>
<th></th>
<th>C</th>
<th>Si</th>
<th>Mn</th>
<th>P max</th>
<th>S max</th>
<th>N max</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0,25-0,35</td>
<td>0,60-0,95</td>
<td>0,90-1,40</td>
<td>0,040</td>
<td>0,050</td>
<td>0,012</td>
</tr>
</tbody>
</table>

CONTACTS

Product development
Products and markets development manager
Metinvest Holding
Vladimir Litvinenko
tel +38 067 544 55 05
vladimir.litvinenko@metinvestholding.com

Sales in Ukraine
Metinvest-SMC, LLC

Sales in Russia
Metinvest Eurasia, LLC

15A Leiptsyzka str., Kyiv
01015, Ukraine
tel +38 (044) 381 44 37
tel 8 800 303 070
sales@metinvest-smc.com

17 Vereyskaya Str., off.105
Moscow,121357, Russia
tel +7 (495) 739 26 26
tel +7 (800) 595 39 57
sales@metinvest-eurasia.com